

#### United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trudemark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.usub.oc.

## NOTICE OF ALLOWANCE AND FEE(S) DUE

23628

7590

04/22/2003

WOLF GREENFIELD & SACKS, PC FEDERAL RESERVE PLAZA 600 ATLANTIC AVENUE BOSTON, MA 02210-2211 EXAMINER

MAYO III, WILLIAM H

ART UNIT CLASS-SUBCLASS

2831 174-027000

DATE MAILED: 04/22/2003

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ı	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	09/585,072	06/01/2000	Gavriel Vexler	736.321US01	5741

. TITLE OF INVENTION: TWISTED PAIR CABLE WITH DUAL LAYER INSULATION HAVING IMPROVED TRANSMISSION CHARACTERISTICS

Z	APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
	nonprovisional	YES	\$650	\$0	\$650	07/22/2003

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.



# PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Box ISSUE FEE Commissioner for Patents Washington, D.C. 20231

Fax (703)746-4000

appropriate. All further cor indicated unless corrected by	respondence including the below or directed otherwis	Patent advance orders	and notification	of maintenance f	required). Blocks 1 through 4 sees will be mailed to the current dress; and/or (b) indicating a sep	correspondence address as	
23628 75	18. TE ADDRESS (Note: Legibly mark- 590 04/22/2003 TELD & SACKS, P		Block T)	Fee(s) Transm	ate of mailing can only be used for ittal. This certificate cannot papers. Each additional paper, s must have its own certificate of r	be used for any other	
FEDERAL RESER 600 ATLANTIC A BOSTON, MA 022	RVE PLAZA VENUE			formal drawing, must have its own certificate of mailing or transmission.  Certificate of Mailing or Transmission  I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Box Issue Fee address above, or being facsimile transmitted to the USPTO, on the date indicated below.			
						(Depositor's name)	
						(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE	FIRS	ST NAMED INVEN	ror	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/585,072	06/01/2000	<del></del>	Gavriel Vexler	el Vexler 736.321US01 5741 TION HAVING IMPROVED TRANSMISSION CHARACTERISTICS			
APPLN. TYPE nonprovisional	SMALL ENTITY YES	ISSUE FEE	PUBLI	CATION FEE	TOTAL FEE(S) DUE \$650	DATE DUE 07/22/2003	
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1. Change of corresponden CFR 1.363).	ce address or indication of	"Fee Address" (37		on the patent fro to 3 registered			
☐ Change of corresponde Address form PTO/SB/12	ence address (or Change of 22) attached.	Correspondence	or agents OR, single firm (ha	alternatively, (2) ving as a memb	the name of a per a registered	<del>-</del>	
"Fee Address" indication PTO/SB/47; Rev 03-02 on Number is required.	on (or "Fee Address" Indica or more recent) attached. Us	ation form se of a Customer	registered paten	nt) and the nan t attorneys or age e will be printed.			
3. ASSIGNEE NAME AND	RESIDENCE DATA TO	BE PRINTED ON THE	PATENT (print o	r type)			
PLEASE NOTE: Unless as been previously submitted (A) NAME OF ASSIGNED	to the OSF IO of is being s	uominea under separate	ill appear on the pe cover. Completion SIDENCE: (CITY	n of this form is N	of assignee data is only appropriat NOT a substitute for filing an assig COUNTRY)	e when an assignment has inment.	
Please check the appropriate	assignee category or categ	ories (will not be printed	d on the natent)	□ individual	□ corporation or other private g	mouse antitu. []	
4a. The following fee(s) are			yment of Fee(s):	- Individual	a corporation of other private g	loup entity a government	
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☐ Publication Fee			ment by credit card				
☐ Advance Order - # of Co	opies	☐ The Deposi	Commissioner is hit Account Number	ereby authorized	by charge the required fee(s), or conclose an extra copy of this	redit any overpayment, to	
Commissioner for Patents is	requested to apply the Issu	e Fee and Publication Fe	ee (if any) or to re-	apply any previo	ously paid issue fee to the applicat		
(Authorized Signature)		(Date)					
NOTE: The Issue Fee and other than the applicant; a interest as shown by the rec	a registered attorney or agords of the United States F	gent; or the assignee of atent and Trademark O	r other party in ffice.				
This collection of informal obtain or retain a benefit happlication. Confidentiality estimated to take 12 minut completed application for case. Any comments on suggestions for reducing the Patent and Trademark Offinot SEND FEES OR Commissioner for Patents.	tion is required by 37 CFI by the public which is to be its governed by 35 U.S.C. es to complete, including an to the USPTO. Time with a amount of time you his burden, should be sent ce, U.S. Department of CCOMPLETED FORMS	R 1.311. The informatic (and by the USPTC 122 and 37 CFR 1.14. 7 pathering, preparing, and 11 vary depending upo require to complete to the Chief Informatic manerce, Washington, TO THIS ADDRES	on is required to D to process) an This collection is d submitting the n the individual his form and/or on Officer, U.S. D.C. 2023 I. DO S. SEND TO:				

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23628 7590 04/22/2003			EXAMIN	ER		
	NFIELD & SACKS	PC ·	MAYO III, WILLIAM	LLIAM H		
600 ATLANTI			ART UNIT	PAPER NUMBER		
BOSTON, MA	02210-2211		2831			
				DATE MAILED: 04/22/2003		

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The patent term adjustment to date is 0 days. If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the term adjustment will be 0 days.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

Any questions regarding the patent term extension or adjustment determination should be directed to the Office of Patent Legal Administration at (703)305-1383.



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23628 7590 04/22/2003			EXAMIN	ER		
WOLF GREENFIELD & SACKS, PC FEDERAL RESERVE PLAZA			MAYO III, WILLIAM H			
600 ATLANTI				ART UNIT	PAPER NUMBER	
BOSTON, MA		11		2831		
UNITED STATES			DATE MAILED: 04/22/2003			

## Notice of Fee Increase on January 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after January 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on January 1, 2003. See Revision of Patent and Trademark Fees for Fiscal Year 2003; Final Rule, 67 Fed. Reg. 70847, 70849 (November 27, 2002).

The current fee schedule is accessible from: http://www.uspto.gov/main/howtofees.htm.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of the fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after January 1, 2003 (or mailed with a certificate of mailing on or after January 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

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,	Application	n No.	Applicant(s)	20
	ノ 09/585,072		VEXLER ET AL.	
Notice of Allowability	Examiner	-	Art Unit	
Ť	William H. I	Mayo III	2831	
	VVIIII ATTI TIL	viayo iii		
The MAILING DATE of this communication All claims being allowable, PROSECUTION ON THE MER herewith (or previously mailed), a Notice of Allowance (PTONOTICE OF ALLOWABILITY IS NOT A GRANT OF PATION of the Office or upon petition by the applicant. See 37 CFF	ITS IS (OR REMAII OL-85) or other app E <b>NT RIGHTS</b> . This	NS) CLOSED in this appropriate communication application is subject to	plication. If not include will be mailed in due	ed course. <b>THIS</b>
1. This communication is responsive to April 8, 2003.				
2. The allowed claim(s) is/are <u>1,3, 5-11 and 13-17</u> .				
3. The drawings filed on are accepted by the E				
<ol> <li>Acknowledgment is made of a claim for foreign prio</li> <li>a) ☐ All b) ☐ Some* c) ☐ None of the:</li> </ol>	rity under 35 U.S.C	. § 119(a)-(d) or (f).		
1. Certified copies of the priority documen	ts have been receiv	ed.		· ·
<ol><li>Certified copies of the priority documen</li></ol>	ts have been receiv	ed in Application No	·	
<ol><li>Copies of the certified copies of the price</li></ol>	rity documents hav	e been received in this i	national stage applica	tion from the
International Bureau (PCT Rule 17.2	(a)).			
* Certified copies not received:				
5. Acknowledgment is made of a claim for domestic pr			onal application).	
(a) The translation of the foreign language provis				
6. Acknowledgment is made of a claim for domestic pr	ority under 35 U.S.	C. §§ 120 and/or 121.		
Applicant has THREE MONTHS FROM THE "MAILING DA below. Failure to timely comply will result in ABANDONME	ENT of this application	on. THIS THREE-MON	ITH PERIOD IS NOT	EXTENDABLE
<ol> <li>A SUBSTITUTE OATH OR DECLARATION must b INFORMAL PATENT APPLICATION (PTO-152) which give</li> </ol>	e submitted. Note the sereason(s) why the	ne attached EXAMINER e oath or declaration is	'S AMENDMENT or Note of the second of the se	NOTICE OF
8. X CORRECTED DRAWINGS must be submitted.				
(a) including changes required by the Notice of Dra	aftsperson's Patent	Drawing Review ( PTO-	948) attached	
1) ☐ hereto or 2) ☐ to Paper No				
(b) ☐ including changes required by the proposed dr	awing correction file	ed, which has be	een approved by the E	xaminer.
(c) ☑ including changes required by the attached Ex				
Identifying indicia such as the application number (see 37 of each sheet. The drawings should be filed as a separate	CFR 1.84(c)) should paper with a transn	l be written on the drawir nittal letter addressed to	ngs in the top margin (r the Official Draftsperso	not the back) on.
<ol> <li>DEPOSIT OF and/or INFORMATION about the attached Examiner's comment regarding REQUIREMENT</li> </ol>	deposit of BIOLO FOR THE DEPOSI	OGICAL MATERIAL n T OF BIOLOGICAL MA	nust be submitted. I TERIAL.	Note the
Attachment(s)				
1 Notice of References Cited (PTO-892)		2☐ Notice of Informa	al Datent Anniisation (	DTO 152\
3 Notice of Draftperson's Patent Drawing Review (PTO-		4⊠ Interview Summa	,	•
5☐ Information Disclosure Statements (PTO-1449), Pape	r No	6⊠ Examiner's Ame	• •	
7 Examiner's Comment Regarding Requirement for Dep	osit	8⊠ Examiner's State		Allowance
of Biological Material		9⊠ Other <i>Drawing C</i>	orrections.	

Application/Control Number: 09/585,072

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## **EXAMINER'S AMENDMENT**

- 1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- 2. Authorization for this examiner's amendment was given in a telephone interview with Ilan N Barzilay on April 16, 2003.
- 3. The application has been amended as follows:

In claim 7, line 1, replace the numerical "4", with the numerical -1--.

In claim 9, line 1, replace the numerical "4", with the numerical -1--.

please replace the current abstract with the following abstract.

The present invention includes a twisted pair cable having a plurality of pairs, wherein each has two conductors. Each of the conductors is covered with an inner layer insulator and an outer layer insulator, wherein the positioning of the conductors within the inner and outer insulators is eccentric with respect to the inner and outer insulators. This invention also includes a method of making a cable of the same configuration.



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## **Drawings**

- 6. The claims being allowed, formal drawings are required in response to this office action.
- 7. The following changes to the drawings have been approved by the examiner and agreed upon by applicant: The applicant should provide the proper cross hatching as discussed during the interview and which are shown in the enclosed drawing corrections. In order to avoid abandonment of the application, applicant must make these above agreed upon drawing changes.

# Allowable Subject Matter

- 8: Claims 1, 3, 5-11, and 13-17 are allowed.
- 9. The following is an examiner's statement of reasons for allowance: This invention deals with a twisted pair cable wherein the conductor of the first assembly is closer to a conductor of the second assembly than an outer surface opposite the conductors (claims 1 & 3). This invention also deals with a twisted pair cable comprising an method of making a twisted pair cable comprising an extrudable polymer having a modulus of elasticity greater than 64 KPSI at room temperature and an extrudable elastomer having a modulus of elasticity lower than 35 KPSI at room temperature (claim 16). This invention also deals with a twisted pair cable comprising two plurality of pairs, wherein each pair comprises two assemblies, wherein a second assembly comprises an inner edge of the second assembly defined by a surface of the second assembly closest to a

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first assembly in the same pair and an outer edge of the of the second assembly defined by a surface of the second assembly farthest from the first assembly in the same pair, wherein the outer edge of the second assembly being farther from the second conductor than the inner edge of the second assembly over the length of the pair (claim 17). The above stated claim limitations, in combination with other claim limitations, are not taught or suggested by the prior art of record. Claims 5-11 and 13-15 are depended upon allowed claim 1, and therefore are allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### Communication

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to William H. Mayo III whose telephone number is (703) 306-9061. The examiner can normally be reached on M-F 8:30am-6:00 pm (alternate Fridays off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dean Reichard can be reached on (703) 308-3682. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-3432 for regular communications and (703) 305-3431 for After Final communications.

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Page 5

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

WHM III

April 16, 2003

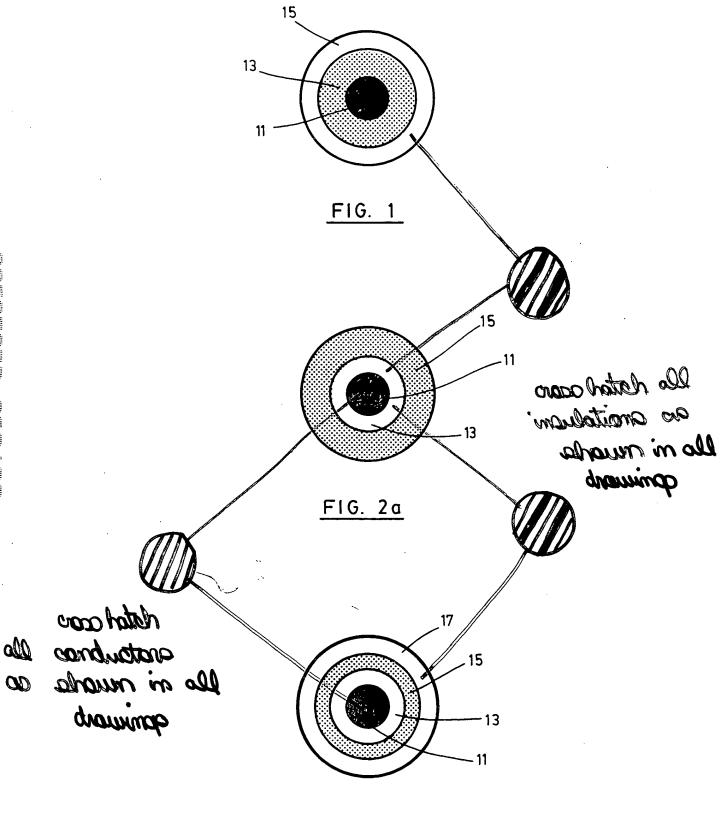


FIG. 2b

